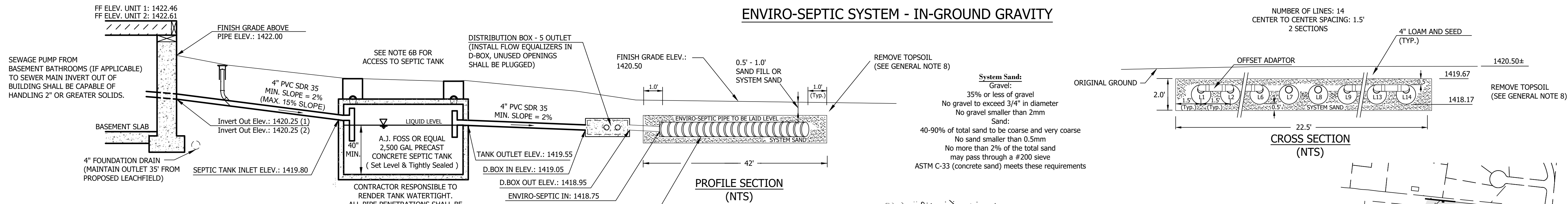


ENVIRO-SEPTIC SYSTEM - IN-GROUND GRAVITY



GENERAL NOTES

1. THE CONTRACTOR SHALL ADHERE STRICTLY TO THESE PLANS AND THE REGULATIONS SET FORTH IN THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES MANUAL - "SUBDIVISION AND INDIVIDUAL SEWAGE DISPOSAL SYSTEM DESIGN RULES", CHAPTER ENV-WQ 1000, DATED OCTOBER 1, 2016, CURRENT EDITION, AS WELL AS "THE PRESBY WASTEWATER TREATMENT SYSTEM, NEW HAMPSHIRE DESIGN AND INSTALLATION MANUAL", CURRENT EDITION.
2. CALL DIG-SAFE PRIOR TO INSTALLATION.
3. SEPTIC SYSTEM SHALL BE INSTALLED BY A NHDES LICENSED INSTALLER.
4. THIS PLAN IS NOT MEANT TO REPRESENT A PROPERTY BOUNDARY SURVEY.
5. ENVIRO-SEPTIC LEACHING SYSTEM AS MANUFACTURED BY PRESBY ENVIRONMENTAL, INC., SUGAR HILL, NH.
6. COVER OVER PROPOSED SYSTEM:
 - A. 18" MINIMUM COVER SHALL BE PROVIDED OVER THE PIPE FROM THE HOUSE TO THE SEPTIC TANK OR THE PIPE SHALL BE INSULATED.
 - B. IF THE FINISH GRADE OVER THE SEPTIC TANK IS GREATER THAN 24" PROVIDE 30" HDPE RISER AND COVER TO BE SET WITHIN 12" OF FINISH GRADE OVER TANK OPENINGS. RISER AND COVER OVER PUMP CHAMBER SHALL EXTEND TO FINISH GRADE.
 - C. MINIMUM COVER OVER LEACH FIELD TO BE 6" WITH AVERAGE COVER BEING 12". THE FINISH GRADE IS TO BE SLOPED TO DRAIN OFF THE TOP OF THE SYSTEM AT A MINIMUM OF 1%.
 - D. MAINTAIN 2' OF COVER OVER THE PIPE FROM THE SEPTIC TANK TO THE DISTRIBUTION BOX OR THE PIPE SHALL BE INSULATED.
7. IF THE CONTRACTOR DETERMINES THAT EXISTING FIELD CONDITIONS ARE OTHER THAN SHOWN ON THESE PLANS, HE SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND DESIGNER FOR DIRECTIONS.
8. ALL TREES, ROOTS, LOAM AND OTHER ORGANIC MATTER SHALL BE REMOVED FROM UNDER LEACHFIELD AND SLOPE EXTENSIONS PRIOR TO PLACING FILL. PLACE FILL IN 16" LIFTS, CONSOLIDATE AND RAKE BACKFILL. SCARIFY SUBGRADE SOIL.
9. FILL USED TO RAISE THE EFFLUENT DISPOSAL AREA SHALL BE CLEAN BANK RUN SAND, FREE FROM TOPSOIL, HUMUS, DREDGINGS, OR STONES OR MATERIAL MORE THAN 6" IN DIAMETER.
10. ALL DISTURBED AREA SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED (GRADE LOAM TO DRAIN 1% MIN SLOPE ON TOP OF LEACHFIELD).
11. RECOMMENDED OPERATING PROCEDURES:
 - A. PUMP SEPTIC TANKS ONCE EVERY TWO YEARS.
 - B. USE BIODEGRADABLE DETERGENTS.
 - C. WATER SAVING DEVICES AND PROCEDURES ARE RECOMMENDED.
 - D. ANY FUTURE REPLACEMENT SYSTEM, IF NEEDED, SHALL BE LOCATED IN THE SAME LOCATION AS THIS DESIGN UNLESS CONDITIONS AT THE TIME OF REPLACEMENT DICTATE OTHERWISE.
 - E. THE TANK SIZE SHALL BE INCREASED BY 50% IF A GARBAGE GRINDER IS TO BE INSTALLED.
12. PIPES AND CONNECTIONS OUTSIDE OF THE LEACHING AREA SHALL BE WATER TIGHT. THE CONNECTIONS SHALL BE SEALED WITH NON-SHRINK HYDRAULIC CEMENT.
13. UNUSED OPENINGS IN THE DISTRIBUTION BOX SHALL BE PLUGGED.
14. THIS SYSTEM HAS NOT BEEN DESIGNED FOR VEHICULAR TRAFFIC. THEREFORE, THE SYSTEM SHOULD BE PROTECTED FROM ANY WHEEL VEHICLES.
15. THE SITE IS NOT LOCATED WITHIN THE NHDES PROTECTIVE SHORELAND.
16. PAPER PRODUCTS ONLY TO BE FLUSHED. FLUSHABLE BATHROOM PRODUCTS CAN CLOG THE SEPTIC SYSTEM.

LOT LOADING CALCULATIONS:

$$\text{LOT SIZE} = (Q(\text{GPD})/2000(\text{GPD}/\text{ACRE})) / \text{SEWAGE LOADING FACTOR}$$
 [Env-Wq 1005.03(k)]

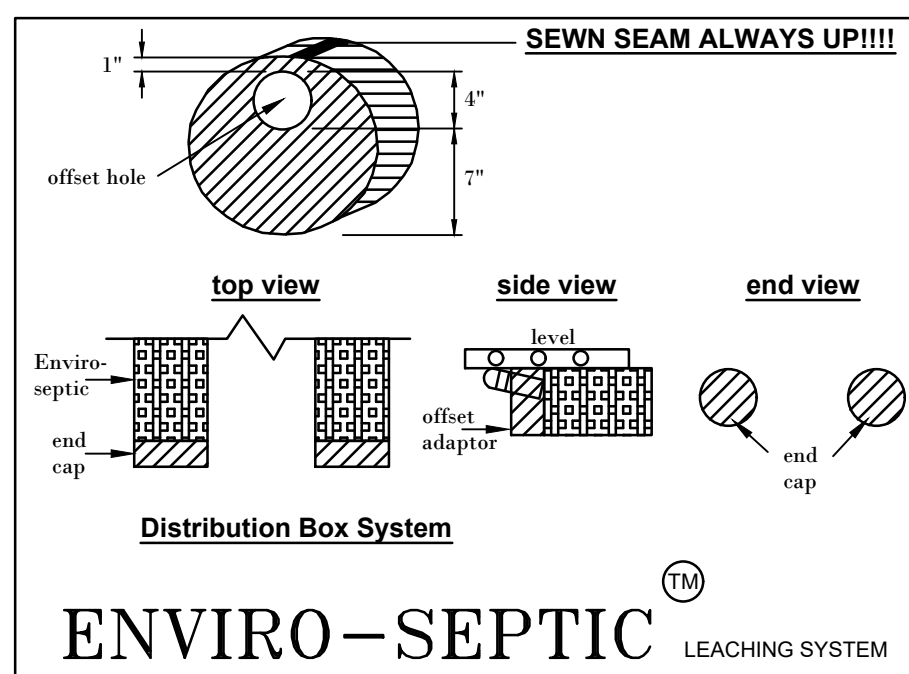
NOTE: AREAS EXCLUDE OPEN WATER,
VERY POORLY DRAINED SOILS, AND SLOPES > 35%

SOIL GROUP 3

SLOPE OF LOT = 0-8%
LOT SIZE REQUIRED = 1200 GPD / 2000 x1.6 = 0.96 ACRES

LOT SIZE PROVIDE = 1.12 ACRES

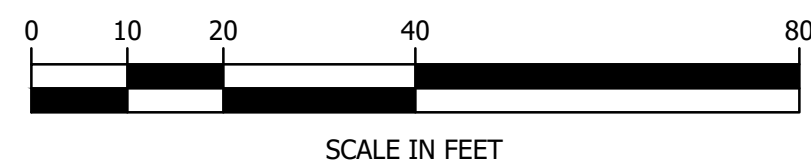
NO INSTALLATION OF ANY SEPTIC COMPONENTS (TANK, FIELD, ETC.) SHALL COMMENCE UNTIL WATERMAIN AND WATER SERVICE WORK HAS BEEN COMPLETE.



REVIEWED AND APPROVED
IN ACCORDANCE WITH THE
REQUIREMENTS OF THE
NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION

Date: 8/24/2023

#eCA2023082407



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LOCATION MAP

DIRECTIONS: FROM THE INTERSECTION OF US ROUTE 3 & 302 IN
TWIN MOUNTAIN, HEAD SOUTH ON ROUTE 3. SITE
IS APPROX. 0.3 MILES ON THE LEFT.

DESIGN CRITERIA'

NUMBER OF BEDROOMS: DUPLEX UNIT @ 4 BEDROOMS EACH = 8
SEWAGE LOADING: $8 \times 150 \text{ GPD} = 1,200 \text{ GPD}$
PERCOLATION RATE: 2 MINS/INCH
AMOUNT OF ENVIRO-SEPTIC REQUIRED: 560 LF
14 LINES @ 40 LF EA = 560 LF

TANK SIZING:

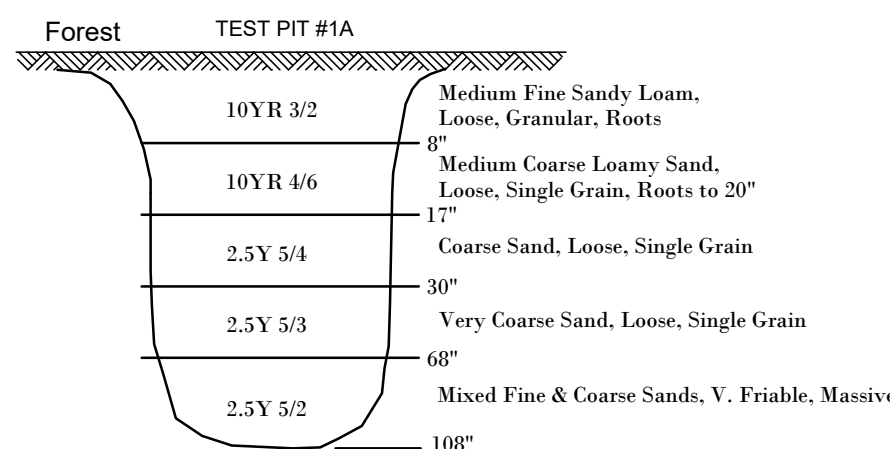
TWO - 4 BEDROOM UNITS @ 1,250 GAL/UNIT
= 1,250 GAL X 2 = 2,500 GAL

DESIGN INTENT:

THE BOTTOM OF THE BED SHALL BE CONSTRUCTED AT ELEVATION 1418.17. THE ELEVATION OF THE HIGH CONTOUR OF THE DESIGNED BED: 1420.00, AND IS APPROXIMATELY 1.8 FEET BELOW EXISTING GROUND LEVEL.

BENCH MARK AND ELEVATION DATA TO BE USED TO DETERMINE THE ACTUAL ELEVATION OF THE FIELD FOR GREATER ACCURACY.

BENCHMARKS USED FOR TIE POINTS
TO BE LEFT IN PLACE AND VISIBLE UNTIL
THE NHDES INSPECTION HAS BEEN COMPLETED AND APPROVED.
NO OPEN WATER, WELLS OR ABUTTING FOUNDATIONS
WITHIN 75' OF THE PROPOSED EFFLUENT DISPOSAL AREA.



E.S.H.W.T.: 52"
WATER OBSERVED: None
LEDGE ENCOUNTERED: None

INSPECTED BY: M. VANDER-HEYDEN

REFERENCE: NRCS WEB SOIL SURVEY

① PERCOLATION TEST
RATE: 2 min./ inch

NO.	DATE	REVISION DESCRIPTION	ENG	DWG
①	8/2023	BUILDING REVISIONS	CFC	KRP
②	8/2023	LEACH FIELD REVISIONS	CFC	KRP

DATE: 11/3/2021	PROJECT #: 18293
ENGIN'D BY: JCD	DRAWN BY: JCD
CHECK'D BY:	ARCHIVE #: -

SHEET 1 OF 1